

# Notice of Allowability

Application No.

10/773,724

Examiner

JEAN B. FLEURANTIN

Applicant(s)

ASHWIN ET AL.

Art Unit

2162

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/05/2007.
2. ☒ The allowed claim(s) is/are 1,2,4-13,23,26-28 and 30.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
Jean Bolte Fleurantin  
Patent Examiner  
Technology Center 2100

### **DETAILED ACTION**

1. This is in response to Applicant's communication on 10/05/2007.

The following is the status of claims:

Claims 3, 14-22, 24, 25 and 29 have been cancelled.

Claims 1, 2, 4-13, 23, 26-28 and 30 remain pending for examination.

### *Response to Arguments*

Applicant's arguments, filed 08/17/2007, with respect to the pending claims have been fully considered and are persuasive, as a result, the amendment to the claims overcome the rejection(s). Therefore, the rejection(s) of the last Office action(s) has(have) been withdrawn.

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Francis L. Dunn, Jr. (Reg. No. 57,972) on October 05, 2007.

The application has been amended as follow:

In the claims,

Claims 14-22, 24 and 25 have been cancelled.

Replace old versions of claim 1 with new versions

Claim 1

A computer-implemented system to facilitate communication between a client device and a server device comprising:

a tabular data stream (TDS) protocol that comprises:

a multiple active result set (MARS) header,

a data field that is part of the MARS header and identifies a number of pending requests known by the client device to the server device, the MARS header is employed to transmit, to the server device, the number of pending requests known by the client device to facilitate synchronization of execution of queries to facilitate communication between the client device and the server device, based at least in part on the number of pending requests known by the client device, regardless of respective buffer sizes for the client device and the server device, and

the TDS protocol further comprises a chunk format component that employs a Partially Length Prefixed (PLP) format to transmit data between the client device and the server device, and the chunk format component further employs a special length designator that is communicated to the client device and indicates that a total value of a length of a data stream is not known and the data stream is to be transmitted in multiple data stream packets.

Replace old versions of claim 11 with new versions

Claim 11

A computer-implemented system that facilitates  
communication in client/server networks comprising:

a server device in communication with a client device via a tabular data stream  
(TDS) protocol in a network environment; and

the TDS protocol comprising:

a query notification header with a data field that requests updates related  
to a query at a time the communication is initially established to facilitate communication  
between the server device and the client device, the updates comprise information  
associated with at least a change to the query, and

the TDS protocol further comprises a chunk format component that  
employs a Partially Length Prefixed (PLP) format to transmit data between the client  
device and the server device, and the chunk format component further employs a special  
length designator that is communicated to the client device and indicates that a total value  
of a length of a data stream is not known and the data stream is to be transmitted in  
multiple data stream packets.

Replace old versions of claim 23 with new versions

Claim 23

A computer-implemented system that facilitates communication between a client device and a server device comprising:

- means for issuing a query by the client device;
- means for processing the query by the server device; and
- means for communicating via a tabular data stream (TDS) protocol in a network environment, comprising:
  - means for communicating to the server device a number of pending requests known by the client device,
  - means for sending the query results to the client device such that the client device and server device are synchronized, based in part on a number of pending requests known by the client device, regardless of respective buffer sizes associated with the client device and the server device, and
  - means for transmitting data between the client device and the server device using a Partially Length Prefixed (PLP) format, the means for transmitting data between the client device and the server device using the PLP format further employing a special length designator that is communicated to the client device and indicating that a total value of a length of a data stream is not known and the data stream is to be transmitted in multiple data stream packets.

### **REASONS FOR ALLOWANCE**

With respect to claims 1, 2, 4-13, 23, 26-28 and 30 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

With respect to claims 1, 11 and 23 the claimed features "a computer-implemented system to facilitate communication between a client device and a server device comprising the TDS protocol further comprises a chunk format component that employs a Partially Length Prefixed (PLP) format to transmit data between the client device and the server device, and the chunk format component further employs a special length designator that is communicated to the client device and indicates that a total value of a length of a data stream is not known and the data stream is to be transmitted in multiple data stream packets" in conjunction with other elements of the independent claims are not suggested, anticipated or found to be obvious over the prior art made of record.

The dependent claims, being definite, further limiting, and fully enabled by the specification are also allowed.

The closest prior art, Anand et al., U.S. Patent Number 5,974,416 relates to transferring tabular data over a network. Tsuei et al., Database Buffer Size Investigation for OLTP Workloads, relates to database buffers for on-line transaction processing systems but fail to teach the above limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### CONTACT INFORMATION

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEAN B. FLEURANTIN whose telephone number is 571 – 272-4035. The examiner can normally be reached on 7:05 to 4:35.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JOHN E BREENE can be reached on 571 – 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 703-308-6606.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jean Bolte Fleurantin

Patent Examiner

Technology Center 2100